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**EXAMINER:**

Gregory L. Sasey

**DATE CONSIDERED:** 9-8-04

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Information Disclosure Statement--PTO 1449 (modified) //

PAGE 4/14 \* RCVD AT 8/2/2004 1:15:13 PM [Eastern Daylight Time] \* SVR:USPTO-EFXRF-10 \* DNI:8729306 \* CSID:5127031250 \* DURATION (mm:ss):07:46

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| INFORMATION DISCLOSURE CITATION<br>IN AN APPLICATION<br><br>(Use several sheets if necessary) |    |                 |                 |                |  | Atty. Docket No.<br>5863-00203           | Serial No.<br>10/772,071 |                            |
|---|----|-----------------|-----------------|----------------|--|--|--------------------------|----------------------------|
|   |    |                 |                 |                |  | Applicant<br>C. D. Huston, D. J. Cornish |                          |                            |
|   |    |                 |                 |                |  | Filing Date<br>2/4/2004                  | Group<br>2631            |                            |
| <b>U.S. PATENT DOCUMENTS</b>  |    |                 |                 |                |  |  |                          |                            |
| EXAMINER INITIAL  |    | DOCUMENT NUMBER | DATE            | NAME           |  | CLASS                                    | SUBCLASS                 | FILED DATE IF APPROPRIATE  |
| gr  | AA | 5 3 2 6 0 9 5   | 7/5/94          | Douglas Dudley |  |  |                          |                            |
|   |    |                 |                 |                |  |  |                          |                            |
| <b>FOREIGN PATENT DOCUMENTS</b>   |    |                 |                 |                |  |  |                          |                            |
|   |    | DOCUMENT NUMBER | DATE            | COUNTRY        |  | CLASS                                    | SUBCLASS                 | TRANSLATION<br>YES      NO |
|   |    |                 |                 |                |  |  |                          |                            |
| <b>OTHER DOCUMENTS</b> (Including Author, Title, Date, Pertinent Pages, Etc.)                 |    |                 |                 |                |  |  |                          |                            |
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| EXAMINER  |    |                 | DATE CONSIDERED |                |  |  |                          |                            |
| <i>Gregory C Lang</i>   |    |                 | 2-8-04          |                |  |  |                          |                            |

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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| Form PTO-1449<br>(REV. 8-83)  |                        | U.S. Department of Commerce<br>Patent and Trademark Office |               | 5863-00203      | Serial No.<br>10/772,071 |          |                            |
|---|------------------------|--|---------------|-----------------|--------------------------|----------|----------------------------|
| Information Disclosure Citation<br><br>(Use several sheets if necessary)  |                        | Applicant  |               |                 |                          |          |                            |
|   |                        | C.D. Huston, D.J. Cornish                                  |               |                 |                          |          |                            |
|   |                        | Filing Date<br>2/4/2004                                    | Group<br>2681 |                 |                          |          |                            |
| U.S. PATENT DOCUMENTS   |                        |  |               |                 |                          |          |                            |
| EXAMINER INITIAL  |                        | DOCUMENT NUMBER  | DATE          | NAME            | CLASS                    | SUBCLASS | FILING DATE IF APPROPRIATE |
| gj  | AB                     | 5 0 5 6 1 0 6  | 8/10/91       | Wang et al.     | 375                      | 1        |                            |
|   | AC                     | 4 7 5 1 5 1 2  | 14/06/88      | Longaker        | 342                      | 357      |                            |
|   | AD                     | 5 0 4 4 6 3 4  | 03/09/91      | Dudley          | 273                      | 32R      |                            |
|   | AE                     | 4 7 8 3 0 7 1  | 08/10/88      | Tattershall     | 273                      | 32H      |                            |
|   | AF                     | 4 6 6 6 1 5 7  | 19/05/87      | Bodine          | 273                      | 32H      |                            |
| FOREIGN PATENT DOCUMENTS  |                        |  |               |                 |                          |          |                            |
|   |                        | DOCUMENT NUMBER  | DATE          | COUNTRY         | CLASS                    | SUBCLASS | TRANSLATION<br>YES NO      |
| SG  | AG                     | 9 3 1 2 4 3 9  | 24/06/93      | PCT, Australia  |                          |          |                            |
|   |                        |  |               |                 |                          |          |                            |
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|   |                        |  |               |                 |                          |          |                            |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  |                        |  |               |                 |                          |          |                            |
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|   |                        |  |               |                 |                          |          |                            |
| EXAMINER  | <i>Gregory C. Sieg</i> |  |               | DATE CONSIDERED | 9-8-04                   |          |                            |
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|   |   |                                       |                                   |
|---|---|---------------------------------------|-----------------------------------|
| <b>Form PTO-1449 (modified)</b>                         |   | <b>Atty. Docket No.</b><br>5863-00203 | <b>Serial No.</b><br>10/772,071   |
| <b>List of Patents and Publications for Applicant's</b> |   |                                       |                                   |
| <b>INFORMATION DISCLOSURE STATEMENT</b>                 |   |                                       |                                   |
| (Use several sheets if necessary)                       |   | <b>Filing Date:</b><br>2/4/2004       | <b>Group:</b><br>2681             |
| <b>U.S. Patent Documents</b><br>See Pages 1-3           | <b>Foreign Patent Documents</b><br>See Page 3 |                                       | <b>Other Art</b><br>See Pages 3-8 |

**U.S. Patent Documents**

| Exam.<br>Init. | Ref.<br>Des. | Document<br>Number | Date     | Name               | Class | Sub<br>Class | Filing Date If<br>App. |
|----------------|--------------|--------------------|----------|--------------------|-------|--------------|------------------------|
| Spi            | A1           | 3,126,545          | 3/24/64  | Smith              | 343   | 103          | 11/23/60               |
|                | A2           | 3,150,372          | 9/22/64  | Groth, Jr.         | 343   | 112          | 6/23/59                |
|                | A3           | 3,182,314          | 5/4/65   | Kleist et al.      | 343   | 6.5          | 6/4/62                 |
|                | A4           | 3,375,520          | 3/26/68  | De Groot et al.    | 343   | 103          | 5/7/65                 |
|                | A5           | 3,771,483          | 11/13/73 | Bond               | 114   | 39           | 10/29/71               |
|                | A6           | 3,868,692          | 2/25/75  | Woodard et al.     | 343   | 112          | 9/13/73                |
|                | A7           | 4,027,840          | 6/7/77   | Blair              | 246   | 122          | 9/30/75                |
|                | A8           | 4,086,630          | 4/25/78  | Speiser et al.     | 364   | 410          | 1/19/76                |
|                | A9           | 4,136,394          | 1/23/79  | Jones et al.       | 364   | 561          | 9/23/77                |
|                | A10          | 4,297,710          | 10/27/81 | Dupressoir         | 343   | 756          | 3/4/80                 |
|                | A11          | 4,303,243          | 12/1/81  | Wolfe              | 273   | 176          | 6/17/80                |
|                | A12          | 4,359,733          | 11/16/82 | O'Neill            | 343   | 6.5          | 9/23/80                |
|                | A13          | 4,419,655          | 12/6/83  | May                | 340   | 323          | 7/30/80                |
|                | A14          | 4,480,310          | 10/30/84 | Alvarez            | 364   | 450          | 7/9/82                 |
|                | A15          | 4,489,314          | 12/18/84 | Miller             | 340   | 568          | 9/23/82                |
|                | A16          | 4,656,463          | 4/7/87   | Anders et al.      | 340   | 572          | 4/21/83                |
|                | A17          | 4,656,476          | 4/7/87   | Tavtigian          | 340   | 993          | 8/26/85                |
|                | A18          | 4,698,781          | 10/6/87  | Cockerell, Jr.     | 364   | 561          | 4/9/86                 |
|                | A19          | 4,703,444          | 10/27/87 | Storms, Jr. et al. | 364   | 561          | 4/3/86                 |
|                | A20          | 4,754,465          | 6/28/88  | Trimble            | 375   | 1            | 5/7/84                 |
| ✓              | A21          | 4,783,744          | 11/8/88  | Yueh               | 364   | 454          | 12/8/86                |
| ✓              | A22          | 4,785,463          | 11/15/88 | Janc et al.        | 375   | 1            | 9/3/85                 |

Examiner:

*Gregory Rose*

Date Considered: 9-8-04

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Information Disclosure Statement — PTO-1449 (Modified)

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| <b>U.S. Patent Documents</b><br>See Pages 1-3           | <b>Foreign Patent Documents</b><br>See Page 3 |                                       | <b>Other Art</b><br>See Pages 3-8 |

**U.S. Patent Documents**

| Exam.<br>Init. | Ref.<br>Des. | Document<br>Number | Date     | Name              | Class | Sub<br>Class | Filing Date if<br>App. |
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| G              | A23          | 4,819,174          | 4/4/89   | Furuno et al.     | 364   | 444          | 1/29/87                |
|                | A24          | 4,823,086          | 4/18/89  | Whitmire et al.   | 324   | 434          | 7/1/88                 |
|                | A25          | 4,847,862          | 7/11/89  | Braisted et al.   | 375   | 1            | 4/7/88                 |
|                | A26          | 4,857,886          | 8/15/89  | Crews             | 340   | 323          | 2/26/88                |
|                | A27          | 4,863,123          | 9/5/89   | Bernard et al.    | 246   | 122          | 9/1/87                 |
|                | A28          | 4,896,580          | 1/30/90  | Rudnicki          | 89    | 1,815        | 12/21/88               |
|                | A29          | 4,906,825          | 3/6/90   | Wu                | 235   | 95           | 12/9/88                |
|                | A30          | 4,910,677          | 3/20/90  | Remedio et al.    | 364   | 410          | 5/18/88                |
|                | A31          | 4,926,161          | 5/15/90  | Cupp              | 340   | 572          | 10/23/89               |
|                | A32          | 4,970,523          | 11/13/90 | Braisted et al.   | 342   | 418          | 3/27/89                |
|                | A33          | 5,025,261          | 6/18/91  | Ohta et al.       | 342   | 357          | 1/16/90                |
|                | A34          | 5,039,091          | 8/13/91  | Johnson           | 272   | 131          | 10/19/90               |
|                | A35          | 5,086,390          | 2/4/92   | Matthews          | 364   | 410          | 1/16/90                |
|                | A36          | 5,095,430          | 3/10/92  | Bonito et al.     | 364   | 410          | 4/17/90                |
|                | A37          | 5,097,416          | 3/17/92  | Matthews          | 364   | 410          | 1/16/90                |
|                | A38          | 5,108,334          | 4/28/92  | Eschenbach et al. | 455   | 314          | 6/1/89                 |
|                | A39          | 5,127,044          | 6/30/92  | Bonito et al.     | 379   | 88           | 2/20/90                |
|                | A40          | 5,129,605          | 7/14/92  | Burns et al.      | 246   | 5            | 9/17/90                |
|                | A41          | 5,148,002          | 9/15/92  | Kuo et al.        | 219   | 211          | 3/14/91                |
|                | A42          | 5,163,004          | 11/10/92 | Rentz             | 364   | 460          | 1/11/91                |
|                | A43          | 5,214,679          | 5/25/93  | Metcalf           | 377   | 5            | 6/13/91                |
|                | A44          | 5,223,844          | 6/29/93  | Mansell et al.    | 342   | 357          | 4/17/92                |
|                | A45          | 5,245,537          | 9/14/93  | Barber            | 364   | 410          | 11/25/91               |

Examiner: *Gregory C. Lipp* Date Considered: *9-8-04*

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Information Disclosure Statement — PTO-1449 (Modified)

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|  |   |   |                                 |
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| <b>INFORMATION DISCLOSURE STATEMENT</b><br><br>(Use several sheets if necessary) |   | <b>Filing Date:</b><br>2/4/2004                               | <b>Group:</b><br>2681           |
| <b>U.S. Patent Documents</b><br>See Pages 1-3                                    | <b>Foreign Patent Documents</b><br>See Page 3 | <b>Other Art</b><br>See Pages 3-8                             |                                 |

**U.S. Patent Documents**

| Exam.<br>Init. | Ref.<br>Des. | Document<br>Number | Date     | Name              | Class | Sub<br>Class | Filing Date If<br>App. |
|----------------|--------------|--------------------|----------|-------------------|-------|--------------|------------------------|
| ✓              | A46          | 5,270,936          | 12/14/93 | Fukushima et al.  | 364   | 444          | 9/23/92                |
|                | A47          | 5,305,201          | 4/19/94  | Matthews          | 364   | 410          | 1/24/92                |
|                | A48          | 5,345,244          | 9/6/94   | Gildea et al.     | 342   | 357          | 1/12/93                |
|                | A49          | 5,355,140          | 10/11/94 | Slavin et al.     | 342   | 386          | 9/15/92                |
|                | A50          | 5,364,093          | 11/15/94 | Huston et al.     | 273   | 32           | 12/10/91               |
|                | A51          | 5,379,045          | 1/3/95   | Gilbert et al.    | 342   | 357          | 9/1/93                 |
|                | A52          | 5,434,789          | 7/18/95  | Fraker et al.     | 364   | 460          | 10/6/93                |
|                | A53          | 5,491,486          | 2/13/96  | Welles, II et al. | 342   | 357          | 4/25/94                |
|                | A54          | 5,510,797          | 4/23/96  | Abraham et al.    | 342   | 352          | 4/15/93                |
|                | A55          | 5,312,902          | 4/30/96  | Guthrie et al.    | 342   | 357          | 4/18/94                |
|                | A56          | 5,519,403          | 5/21/96  | Bickley et al.    | 342   | 352          | 11/29/93               |
|                | A57          | 5,524,081          | 6/4/96   | Paul              | 364   | 460          | 5/2/94                 |
|                | A58          | 5,550,551          | 8/27/96  | Alesio            | 342   | 457          | 7/25/94                |
|                | A59          | 5,552,772          | 9/3/96   | Janky et al.      | 340   | 573          | 12/20/93               |
| ✓              | A60          | 5,568,119          | 10/22/96 | Schipper et al.   | 340   | 825.370      | 12/21/93               |
| ✓              | A61          | 5,568,152          | 10/22/96 | Janky et al.      | 342   | 357          | 2/4/94                 |

**Foreign Patent Documents**

| Exam.<br>Init. | Ref.<br>Des. | Document<br>Number | Date      | Country | Class | Sub<br>Class | Translation<br>Yes/No |
|----------------|--------------|--------------------|-----------|---------|-------|--------------|-----------------------|
| ✓              | B1           | JP 2-189414        | 25 Jul 90 | Japan   | 5     | —            | No                    |
| ✓              | B2           | JP 3-78678         | 3 Apr 91  | Japan   | 5     | —            | No                    |
| ✓              | B3           | JP 3-92714         | 17 Apr 91 | Japan   | 5     | —            | No                    |

Examiner: *Gregory L. Dasek* Date Considered: *9/8-04*

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Information Disclosure Statement — PTO-1449 (Modified)

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| <b>Form PTO-1449 (modified)</b>  |   | Atty. Docket No.<br>5863-00203                         | Serial No.<br>10/772,071          |
| List of Patents and Publications for Applicant's<br><b>INFORMATION DISCLOSURE STATEMENT</b><br>(Use several sheets if necessary) |   |  |                                   |
|  |   | Applicants:<br>Charles D. Huston and Darryl J. Cornish |                                   |
|  |   | Filing Date:<br>2/4/2004                               | Group:<br>2681                    |
| <b>U.S. Patent Documents</b><br>See Pages 1-3  | <b>Foreign Patent Documents</b><br>See Page 3 |  | <b>Other Art</b><br>See Pages 3-8 |

**Foreign Patent Documents**

| Exam. Init. | Ref. Des. | Document Number | Date      | Country | Class | Sub Class | Translation Yes/No |
|-------------|-----------|-----------------|-----------|---------|-------|-----------|--------------------|
|             | B4        | JP 3-134715     | 07 Jun 91 | Japan   | 5     |           | Yes                |
|             | B5        | JP 4-20360      | 23 Jan 92 | Japan   | 5     |           | No                 |
|             | B6        | JP 4-335178     | 24 Nov 92 | Japan   | 5     |           | No                 |
|             | B7        | JP 5-19035      | 26 Jan 93 | Japan   | 5     |           | No                 |
|             | B8        | JP 5-46079      | 26 Feb 93 | Japan   | 5     |           | No                 |
|             | B9        | UK 2 246 198 A  | 22 Jan 92 | GB      |       |           | Yes                |
|             | B10       | WO 87/06713     | 5 Nov 87  | PCT     | 4     |           | Yes                |
|             | B11       | WO 95/21386     | 10 Aug 95 | PCT     | 6     |           | Yes                |
|             | B12       | WO 96/21161     | 11 Jul 96 | PCT     | 6     |           | Yes                |
| ✓           | B13       | WO 96/35197     | 07 Nov 96 | PCT     | 6     |           | Yes                |

**Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)**

| Exam. Init. | Ref. Des. | Citation  |
|-------------|-----------|---|
|             | C1        | Magnavox Advanced Products and Systems Company, brochure: "After Challenger: Marine Satellite Navigation at The Crossroads," (1986) 5 pp.                                 |
|             | C2        | Trimble Navigation, brochure: Information (1989) 26 pp.   |
|             | C3        | Beser et al., "The Application of NAVSTAR Differential GPS in the Civilian Community," Journal of The Institute of Navigation; (Vol. 29, No. 2, Summer 1982), pp. 107-136 |
| ✓           | C4        | Yiu, et al., "A Low-Cost GPS Receiver for Land Navigation," Journal of The Institute of Navigation; (Vol. 29, No. 3, Fall 1982), pp. 204-220                              |

Examiner:

Date Considered:

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*George D.* *9-8-08* *Information Disclosure Statement — PTO-1449 (Modified)*

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| <b>Form PTO-1449 (modified)</b>                  |  | Atty. Docket No.<br>5863-00203         | Serial No.<br>10/772,071   |
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| U.S. Patent Documents<br>See Pages 1-3           |  | Foreign Patent Documents<br>See Page 3 | Other Art<br>See Pages 3-8 |

**Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)**

| Exam.<br>Init. | Ref.<br>Des. | Citation   |
|----------------|--------------|--|
| GRC            | C5           | Vanicek et al., Department of Surveying Engineering, Univ. of New Brunswick, Canada, "The Future of Geodetic Networks," (1983) pp. 372-379   |
|                | C6           | Parkinson et al., "NAVSTAR: Global Positioning System -- Ten Years Later," IEEE, Vol. 71 No. 10 (October 1983), pp. 1177-1186  |
|                | C7           | Stonsell, "Civil GPS From a Future Perspective," IEEE, Vol. 71, No. 10 (October 1983), pp. 1187-1192   |
|                | C8           | Pierraszewski, "A Short and Long Term Comparison of LORAN-C and Civil NAVSTAR GPS Signal Stabilities," (1984) 17 pages   |
|                | C9           | Braisted, et al., "Combining LORAN and GPS -- The Best of Both Worlds," Journal of The Institute of Navigation, (Vol. 33, No. 1, Spring 1986) pp. 20-25                                  |
|                | C10          | Dork, "Satellite Navigation Systems for Land Vehicles," (November 1986) pp. 414-418  |
|                | C11          | Aggarwal, Magnavox Advanced Products and Systems Company, "Integration of Differential GPS with INS for Precise Position, Attitude and Azimuth Determination," (September 1987) 10 pages |
|                | C12          | Klass, "Industry Devising GPS Receivers With Hybrid Navigation Aids," Aviation Week & Space Technology (December 14, 1987) pp. 121-122   |
|                | C13          | Canadian GPS Associates, "Land Applications In Transportation and Communication," (January 1988) 2 pages   |
|                | C14          | Ashjaee, "Differential GPS With Ashtech XII," IEEE (1988) pp. 318-322  |
|                | C15          | Green, "The GPS 21 Primary Satellite Constellation," (1988) 7 pages  |
|                | C16          | Beck, et al., "Proceedings of the First Global Positioning System," (January 1988) pp. 1-38  |
|                | C17          | Vanicek, "Hiking and Biking with GPS: The Canadian Perspective," (April 1988) pp. 225-229  |
|                | C18          | Greening, "GPS Surveys and Boston's Central Artery/Third Harbor Tunnel Project," (May 1988) pp. 165-171  |
|                | C19          | Gerlach et al., "Evaluation of GPS Instruments For Resource Management Applications," (September 1988) pp. 503-507   |

|  |                                |
|--|--------------------------------|
| Examiner: <i>Gregory B. Ladd</i>   | Date Considered: <i>9-8-04</i> |
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*Information Disclosure Statement — PTO-1449 (Modified)*

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|   |  |   |                                   |     |   |     |   |     |  |     |  |     |  |     |  |     |  |     |   |     |   |     |   |     |  |     |  |     |   |     |   |     |   |     |   |     |   |     |  |
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| <b>List of Patents and Publications for Applicant's<br/>INFORMATION DISCLOSURE STATEMENT</b><br><br>(Use several sheets if necessary)   |  | Applicants:<br>Charles D. Huston and Darryl J. Comish |                                   |     |   |     |   |     |  |     |  |     |  |     |  |     |  |     |   |     |   |     |   |     |  |     |  |     |   |     |   |     |   |     |   |     |   |     |  |
|   |  | Filing Date:<br>2/4/2004                              | Group:<br>2681                    |     |   |     |   |     |  |     |  |     |  |     |  |     |  |     |   |     |   |     |   |     |  |     |  |     |   |     |   |     |   |     |   |     |   |     |  |
| <b>U.S. Patent Documents</b><br>See Pages 1-3   |  | <b>Foreign Patent Documents</b><br>See Page 3         | <b>Other Art</b><br>See Pages 3-8 |     |   |     |   |     |  |     |  |     |  |     |  |     |  |     |   |     |   |     |   |     |  |     |  |     |   |     |   |     |   |     |   |     |   |     |  |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">C20</td> <td>Hunter et al., "Land Navigation and Fleet Management With GPS, LORAN and Dead Reckoning Sensors," (November 1988) pp. 54-60</td> </tr> <tr> <td>C21</td> <td>Curry et al., "Developing a Low-Cost GPS Receiver for Marine Applications," (November 1988) pp. 492-498</td> </tr> <tr> <td>C22</td> <td>Hunter, et al., "Vehicle Navigation Using Differential GPS," (November 1988) pp. 139-143</td> </tr> <tr> <td>C23</td> <td>Palmer, "Precise Navigation, Guidance and Control Services within the Agricultural Community," The Journal of Navigation Vol. 42, No. 1 (January 1989)</td> </tr> <tr> <td>C24</td> <td>Hurn, "GPS A Guide To The Next Utility," Trimble Navigation (1989)</td> </tr> <tr> <td>C25</td> <td>Brusnighan, et al., "Orientation Aid Implementing the Global Positioning System," (March 1989) pp. 33-34</td> </tr> <tr> <td>C26</td> <td>Magnavox Advanced Products &amp; Systems Company, "Points &amp; Positions," Vol. VI, No. 1 (Spring 1989)</td> </tr> <tr> <td>C27</td> <td>Trimble Navigation, brochure: "NavGraphic II, GPS/LORAN Receiver," (May 1989) 6 pages</td> </tr> <tr> <td>C28</td> <td>Green et al., "Space Applications of GPS," (January 1989) Journal of the Institute of Navigation Vol. 36, No. 3 (Fall 1989) pp. 239-251</td> </tr> <tr> <td>C29</td> <td>Lachapelle, "A Comparative Analysis of LORAN-C and GPS for Land Vehicle Navigation In Canada," (September 1989) 3 pages</td> </tr> <tr> <td>C30</td> <td>Harris et al., "AVLN 2000™ Automatic Vehicle Location and Navigation System," (1989) pp. 126-130</td> </tr> <tr> <td>C31</td> <td>Banks, "DATATRAK Automatic Vehicle Location and Position Reporting System," (1989) pp. 214-218</td> </tr> <tr> <td>C32</td> <td>Bell, "Vehicular C/N - A Global Satellite Solution," pp. (1989) 403-408</td> </tr> <tr> <td>C33</td> <td>Foster, "Vehicle Location for Route Guidance," (1989) pp. 11-16</td> </tr> <tr> <td>C34</td> <td>Saldin, et al., "Magnavox Automatic Vehicle Location Pilot System for the Toronto Department of Ambulance Services," (1989) pp. 194-201</td> </tr> <tr> <td>C35</td> <td>Palmer, "Test Results of a Precise, Short Range, RF Navigational/Positional System," (1989) pp. 151-155</td> </tr> <tr> <td>C36</td> <td>Parvinainen, et al., "Future Mobile Information Systems: Potential applications and Systems Features," (1989) pp. A-36 - A-42</td> </tr> <tr> <td>C37</td> <td>Pedersen, "User Applications of Mobile Satellite Services," (1989) pp. 398-402</td> </tr> </table> |  |   |                                   | C20 | Hunter et al., "Land Navigation and Fleet Management With GPS, LORAN and Dead Reckoning Sensors," (November 1988) pp. 54-60 | C21 | Curry et al., "Developing a Low-Cost GPS Receiver for Marine Applications," (November 1988) pp. 492-498 | C22 | Hunter, et al., "Vehicle Navigation Using Differential GPS," (November 1988) pp. 139-143 | C23 | Palmer, "Precise Navigation, Guidance and Control Services within the Agricultural Community," The Journal of Navigation Vol. 42, No. 1 (January 1989) | C24 | Hurn, "GPS A Guide To The Next Utility," Trimble Navigation (1989) | C25 | Brusnighan, et al., "Orientation Aid Implementing the Global Positioning System," (March 1989) pp. 33-34 | C26 | Magnavox Advanced Products & Systems Company, "Points & Positions," Vol. VI, No. 1 (Spring 1989) | C27 | Trimble Navigation, brochure: "NavGraphic II, GPS/LORAN Receiver," (May 1989) 6 pages | C28 | Green et al., "Space Applications of GPS," (January 1989) Journal of the Institute of Navigation Vol. 36, No. 3 (Fall 1989) pp. 239-251 | C29 | Lachapelle, "A Comparative Analysis of LORAN-C and GPS for Land Vehicle Navigation In Canada," (September 1989) 3 pages | C30 | Harris et al., "AVLN 2000™ Automatic Vehicle Location and Navigation System," (1989) pp. 126-130 | C31 | Banks, "DATATRAK Automatic Vehicle Location and Position Reporting System," (1989) pp. 214-218 | C32 | Bell, "Vehicular C/N - A Global Satellite Solution," pp. (1989) 403-408 | C33 | Foster, "Vehicle Location for Route Guidance," (1989) pp. 11-16 | C34 | Saldin, et al., "Magnavox Automatic Vehicle Location Pilot System for the Toronto Department of Ambulance Services," (1989) pp. 194-201 | C35 | Palmer, "Test Results of a Precise, Short Range, RF Navigational/Positional System," (1989) pp. 151-155 | C36 | Parvinainen, et al., "Future Mobile Information Systems: Potential applications and Systems Features," (1989) pp. A-36 - A-42 | C37 | Pedersen, "User Applications of Mobile Satellite Services," (1989) pp. 398-402 |
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| C21   | Curry et al., "Developing a Low-Cost GPS Receiver for Marine Applications," (November 1988) pp. 492-498  |   |                                   |     |   |     |   |     |  |     |  |     |  |     |  |     |  |     |   |     |   |     |   |     |  |     |  |     |   |     |   |     |   |     |   |     |   |     |  |
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| C35   | Palmer, "Test Results of a Precise, Short Range, RF Navigational/Positional System," (1989) pp. 151-155  |   |                                   |     |   |     |   |     |  |     |  |     |  |     |  |     |  |     |   |     |   |     |   |     |  |     |  |     |   |     |   |     |   |     |   |     |   |     |  |
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| C37   | Pedersen, "User Applications of Mobile Satellite Services," (1989) pp. 398-402   |   |                                   |     |   |     |   |     |  |     |  |     |  |     |  |     |  |     |   |     |   |     |   |     |  |     |  |     |   |     |   |     |   |     |   |     |   |     |  |
| Examiner: <i>Gregory L. Lee</i>   |  | Date Considered: 9-8-01                               |                                   |     |   |     |   |     |  |     |  |     |  |     |  |     |  |     |   |     |   |     |   |     |  |     |  |     |   |     |   |     |   |     |   |     |   |     |  |
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| List of Patents and Publications for Applicant's<br><b>INFORMATION DISCLOSURE STATEMENT</b><br>(Use several sheets if necessary) |  |                            |
| Atty. Docket No.<br>5863-00203   |  | Serial No.<br>10/772,071   |
| Applicants:<br>Charles D. Huston and Darryl J. Comish  |  |                            |
| Filing Date:<br>2/4/2004   |  | Group:<br>2681             |
| U.S. Patent Documents<br>See Pages 1-3   | Foreign Patent Documents<br>See Page 3   | Other Art<br>See Pages 3-8 |
| C38  | Hunter, "Vehicle Navigation and Fleet Management using Differential GPS," (1989) p. 366  |                            |
| C39  | Feuerstein et al., "A Precision Automatic Vehicle Location System for Use in Construction Automation," (1989) pp. 202-205 and A-43                               |                            |
| C40  | Perlstein, "Automatic Vehicle Location Systems: A Tool for Computer Aided Despatch Systems of the Future," (1989) pp. 186-192 and Figure 1                       |                            |
| C41  | Green et al., "La Constellation Primaire GPS A Vingt Et Un Satellites," (October 1989) pp. 469-485   |                            |
| C42  | Langley, "Radionavigation in a Time of Change," (Electronics & Communication Engineering Journal (November/December 1989) pp. 281-287                            |                            |
| C43  | Wilkie, "Performance of a Backpack GPS in a Tropical Rain Forest," Photogrammetric Engineering and Remote Sensing, Vol. 55, No. 12, December 1989) pp. 1747-1749 |                            |
| C44  | Palmer, "Techniques of Navigating in a Farm Field," (Journal of The Institute of Navigation, Vol. 36, No. 4 (Winter 1989-90) pp. 337-344                         |                            |
| C45  | RTCM Special Committee No.104, "RTCM Recommended Standards For Differential NAVSTAR GPS Service," Version 2.0 (January 1, 1990)                                  |                            |
| C46  | Goad, "Determination of Precise Position of a Moving Vehicle with GPS," (1990) pp. 367-272   |                            |
| C47  | U.S. Dept. of Transportation, "1990 Federal Radionavigation Plan #DOT-VNTSC-RSPA-90-3/DOD-4650.4," (1990) pp. cover sheet, 2-30 - 2-31; 3-42                     |                            |
| C48  | Lachapelle et al., "Analysis of GPS and LORAN-C Performance for Land Vehicle Navigation in the Canadian Rockies," IEEE AES Magazine, (May 1992) pp. 24-28        |                            |
| C49  | Lachapelle et al., "Hybrid GPS/LORAN-C: An Effective Radionavigation System Mix for Vehicular Navigation in Mountainous Areas," (June 1992) pp. 1-9              |                            |
| C50  | Lachapelle, et al. "Quadruple Single Frequency Receiver System for Ambiguity Resolution On The Fly," ION PGS93 (September 1993) pp. 1, 3, 5                      |                            |
| C51  | Lachapelle, et al., "GPS Versus LORAN-C For Vehicular Navigation in Urban and Mountainous Areas," IEEE VNIS93, (October 1993) 2 pages                            |                            |
| C52  | Melgard, et al., "GPS Signal Availability in an Urban Area - Receiver Performance Analysis," IEEE PLANS'94 (April 1994) pp. 1/7, 3/7, 5, 7/7                     |                            |
| CS3  | Lachapelle et al., "GPS System Integration And Field Approaches In Precision Farming," ION National Technical Meeting/San Diego (January 1994) pp. 1, 3, 5, 7    |                            |

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| <b>List of Patents and Publications for Applicant's</b>                          |     | <b>Applicants:</b><br>Charles D. Huston and Darryl J. Cornish   |                                   |
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| GRL  | C54 | Purkey, "On Target," Golf Magazine May (1994) pp. 120-121   |                                   |
|  | C55 | Parkinson, "A History of Satellite Navigation," Journal of The Institute of Navigation Vol. 42, No. 1, Special Issue (1995) pp. 109-164 |                                   |
|  | C56 | Blackwell, "Overview of Differential GPS Methods," (January 1985) pp. 88-101  |                                   |
|  | C57 | Transcript of Deposition of Gaylord B. Green; Defendant's Exhibits 1-4, 6-7, 9-15; and Plaintiffs' Exhibit 1 (May 17, 1997)             |                                   |
| ✓  | C58 | Transcript of Deposition Upon Oral Examination of Howard Israel and Exhibits 1-2 (June 24, 1997)  |                                   |
|  | C59 | Transcript of Telephonic Deposition of Lawrence Molnar and Exhibits 1-2 (July 1, 1997)  |                                   |

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